

Name: _____

at1121exam_practice: Radicals and Squares (v618)

Question 1

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{98}$$

$$\sqrt{75}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x - 9)^2}{3} - 8 = 4$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 8x = -7$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 - 24x + 77$$

Express the function in **vertex form** and identify the **location** of the vertex.